

Appl. No. 09/764,561  
Atty. Docket No. 8386  
Amdt. dated February 4, 2005  
Reply to Office Action of November 4, 2004  
Customer No. 27752

### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A treatment composition comprising an anhydrous liquid emulsifiable concentrate of a reactive agent comprising, by weight:
  - i) from about 0.01% to about 20% of one or more reactive agents wherein the reactive agent is comprised of one or more reactive groups of the electrophilic, nucleophilic or protected thiol type;
  - ii) from about 20% to about 99% of a water immiscible solvent;
  - iii) from about 2 to about 40% of a surfactant selected from one or more of a C<sub>8</sub>-C<sub>16</sub> alkyl ethoxylate with two to seven ethoxylates; and
  - iv) from about 0.5% to about 20% of a dispersing aide selected from one or more of a C<sub>5</sub>-C<sub>10</sub> alcohol

wherein the anhydrous liquid emulsifiable concentrate of a reactive agent is anhydrous self emulsifies or spontaneously emulsifies upon dilution with water or a separate aqueous composition, to form an aqueous micro- or macro- emulsion either immediately prior to or simultaneous to application to a substrate.

2. (canceled)
3. (original) A treatment composition according to Claim 1, wherein the reactive agent is covalently reactive with an amino acid based substrate.
4. (original) A treatment composition according to Claim 3, wherein the reactive agent is covalently reactive with hair.
5. (original) A treatment composition according to Claim 4, wherein the reactive agent additionally comprises a cosmetically active functional group.
6. (original) A treatment composition according to Claim 4, wherein the reactive agent comprises an electrophilic reactive group selected from the group consisting of halotriazines, haloquinoxalines, halopyrimidines, vinylsulfones, β-

Appl. No. 09/764,561  
Atty. Docket No. 8386  
Amdt. dated February 4, 2005  
Reply to Office Action of November 4, 2004  
Customer No. 27752

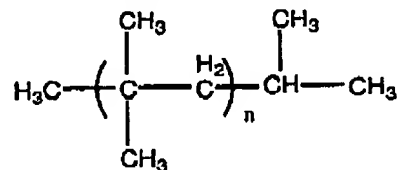
haloethylsulfones,  $\beta$ -sulfatoethylsulfones, acrylates, methacrylates, acrylamides, methacrylamides, maleimides, epoxides, acylhalides, esters, carbamates, dithiocarboxylic acid esters, alkoxysilanes, thiosulfates, anhydrides, urea derivatives, isothiocyanates, isocyanates, lactones, thiosulfates, isothiuroniums, azalactones and mixtures thereof.

7. (original) A treatment composition according to Claim 4, wherein the reactive agent comprises a nucleophilic reactive group selected from the group consisting of thiols, thiolates, thiols or thiolates containing quaternary salts, thioalkyl esters, thioalkylamides, thiol or thiolate derivatives of cysteamine, and mixtures thereof.
8. (original) A treatment composition according to Claim 4, wherein the reactive agent comprises a protected thiol reactive group having the formula
$$R-(S-Pr)_m$$
where R is a mono or multivalent cosmetically active functional group, S is sulfur, Pr is a protecting group and m is an integer between 1 and 100.
9. (original) A treatment composition according to Claim 8, wherein the protecting group is selected from the group consisting of heterocyclic protecting groups,  $sp^2$  aliphatic trigonal carbon protecting groups,  $sp^3$  carbon electrophilic protecting groups, phosphorus protecting groups, metal based protecting groups, non-metal and metalloid based protecting groups other than phosphorus, energy-sensitive protecting groups and mixtures thereof.
10. (canceled)
11. (canceled)
12. (original) A treatment composition according to Claim 1, wherein the water immiscible solvent is selected from the group consisting of a volatile or nonvolatile silicone compound, a volatile or nonvolatile hydrocarbon compound, propylene carbonate and mixtures thereof.

Appl. No. 09/764,561Atty. Docket No. 8386Amdt. dated February 4, 2005Reply to Office Action of November 4, 2004

Customer No. 27752

13. (original) A treatment composition according to Claim 12, wherein the water immiscible solvent is selected from the group consisting of volatile and nonvolatile hydrocarbon compounds having about 10 to 30 carbon atoms, isododecane, isohexadecane and compounds depicted by the following general structure:



wherein n ranges from 2 to 5.

14. (original) A treatment composition according to Claim 12, wherein the water immiscible solvent is selected from the group consisting of linear polydimethylsiloxanes, cyclic polydimethylsiloxanes and mixtures thereof.
15. (original) A treatment composition according to Claim 14, wherein the water immiscible solvent is selected from the group consisting of hexamethylsiloxane, cyclomethicone and mixtures thereof.
16. (canceled)
17. (canceled)
18. (canceled)
19. (canceled)
20. (canceled)
21. (canceled)
22. (previously presented) A treatment composition according to Claim 1, wherein the surfactant is a C<sub>12</sub> ethoxylate with 2-4 ethoxylates.

Appl. No. 09/764,561  
Atty. Docket No. 8386  
Amdt. dated February 4, 2005  
Reply to Office Action of November 4, 2004  
Customer No. 27752

23. (previously presented) A treatment composition according to Claim 1, wherein the surfactant is from about 4% to about 15%.
24. (previously presented) A treatment composition according to Claim 1, wherein the treatment composition is in the presence of a separate aqueous composition which is comprised of a fluid, lotion, fluid cream or cream having a viscosity from 500 to 100,000 mPas or above.
25. (original) A treatment composition according to Claim 24, wherein the separate aqueous composition is a hair shampoo, skin cleanser, skin lotion, hair conditioner, hair dye, hair permanent wave, hair straightener, hair bleach, styling spray, hair mousse, two-in-one shampoo, fabric softener, lotions, nail polish, or hair serum.
26. (canceled)
27. (canceled)
28. (withdrawn) A kit containing a single package containing a first and second compartment wherein the first compartment contains an aqueous composition and the second compartment contains a composition according to Claim 1.
29. (withdrawn) A method of treating amino based substrates wherein the composition of a first compartment is mixed with the composition of a second compartment immediately prior to applying to the amino based substrates.
30. (withdrawn) A method of treating amino based substrates wherein the composition of a first compartment is mixed with the composition of a second compartment during the application to the amino based substrates.
31. (withdrawn) A method according to Claim 29 wherein a multi-chamber package is used in which the emulsifiable concentrate is stored within a first chamber and the aqueous composition is stored within a second chamber.

Appl. No. 09/764,561  
Atty. Docket No. 8386  
Amdt. dated February 4, 2005  
Reply to Office Action of November 4, 2004  
Customer No. 27752

32. (withdrawn) A method according to Claim 30 wherein a multi-chamber package is used in which the emulsifiable concentrate is stored within a first chamber and the aqueous composition is stored within a second chamber.
33. (withdrawn) A method according to Claim 29 wherein more than one package is used in which the emulsifiable concentrate is stored within a first package and the aqueous composition is stored within a second package and wherein the volume of the first package is large enough to allow the addition of the contents of the second package to allow the mixing of the compositions prior to application.
34. (withdrawn) A method according to Claim 30 wherein more than one package is used in which the emulsifiable concentrate is stored within a first package and the aqueous composition is stored within a second package.
35. (withdrawn) A method according to Claim 29 wherein the emulsifiable concentrate and the aqueous composition are mixed by rubbing of two hands together.
36. (withdrawn) A method according to Claim 30 wherein the emulsifiable concentrate and the aqueous composition are mixed by the massaging with two hands onto the said substrate.
37. (withdrawn) A method according to Claim 31 wherein the first and second chambers are separated by barriers which are deformed, broken or removed prior to use.
38. (withdrawn) A method according to Claim 32 wherein the first and second chambers are separated by barriers which are deformed, broken or removed prior to use.
39. (previously presented) A method of bleaching, coloring, and/or conditioning hair wherein a composition of a first compartment is mixed with a composition of a second compartment immediately prior to applying to amino based substrates.
40. (previously presented) A method of bleaching, coloring, and/or conditioning hair wherein a composition of a first compartment is mixed with a composition of a second compartment during the application to amino based substrates.

Appl. No. 09/764,561  
Atty. Docket No. 8386  
Amdt. dated February 4, 2005  
Reply to Office Action of November 4, 2004  
Customer No. 27752

41. (original) A method of treating amino acid based substrates by applying to the substrates an effective amount of composition according to Claim 1, wherein the composition provides a long-lasting treatment effect.
42. (original) A method of bleaching, coloring, and/or conditioning hair by applying to hair an effective amount of composition according to Claim 1, wherein the composition provides a long-lasting treatment effect.
43. (withdrawn) A dual component treatment composition comprising:  
A) a first component comprised of a liquid emulsifiable concentrate of a reactive agent, wherein the liquid emulsifiable concentrate comprises, by weight:  
    *i)* from about 0.01% to about 20% of one or more reactive agents wherein the reactive agent is comprised of one or more reactive groups of the electrophilic, nucleophilic or protected thiol type;  
    *ii)* from about 20% to about 99% of a water immiscible solvent; and  
    *iii)* from about 2 to about 40% of a surfactants-selected from one or more of-a C<sub>8</sub>-C<sub>16</sub> alkyl ethoxylate with two to seven ethoxylates; and  
    *iv)* from about 0.5% to about 20% of a dispersing aide selected from one or more of a C<sub>5</sub>-C<sub>10</sub> alcohol; and  
B) a second component comprised of a separate aqueous concentrate;  
wherein the first component is inter-mixed with the second component immediately prior or simultaneous to application to the hair; further wherein the first component is inter-mixed with the second component to deliver about 0.25% to about 5% by weight of the reactive agent of the first component to the mixture of the first and second component to be applied to the hair.